Issue Date: 10/20/14

Finance and Audit Committee Performance Metrics

Construction Package 1 Contract No. HSR 13-06

Authority Safety Incident Rate
 Contractor Safety Incident Rate
 Design & Construction Support Cost
 Contingency

 Schedule
 Schedule Performance Index (SPI)

 Construction Non-Conformance Report (NCR) Rate

 Disadvantaged/Small Business Enterprise
 All National Targeted Workers
 Disadvantaged Workers

PERFORMANCE METRICS

The following performance metrics for Construction Package 1, a design-build project, are intended to give the Authority's Board of Directors and other key stakeholders a high level overview of the performance of this project.

Safety is a top priority and listed first, followed by key metrics for cost, schedule, and quality, as all are fundamental metrics for the management of the project. In addition and in support of the business aspects of the project, three key metrics are included for economic benefits. The Authority's management team, both on the project site and at the headquarters in Sacramento, will also review other aspects of the project's performance. The Authority will track and monitor the trends of these performance metrics to proactively manage the project.



Finance and Audit Committee Performance Metrics

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Performance Metrics



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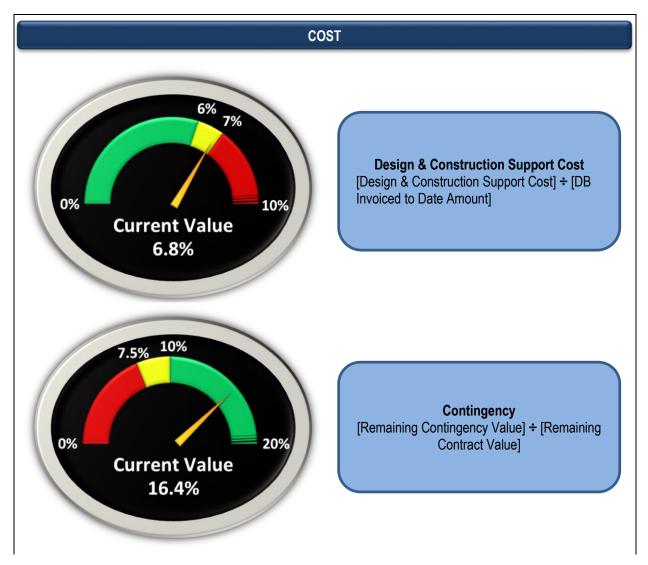


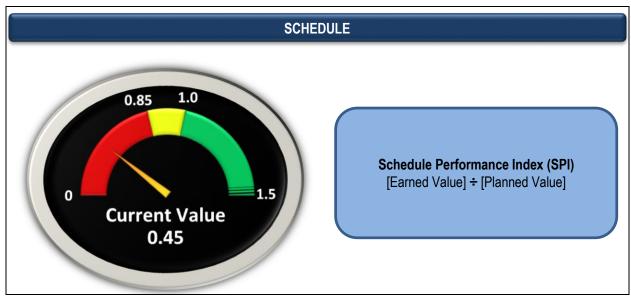
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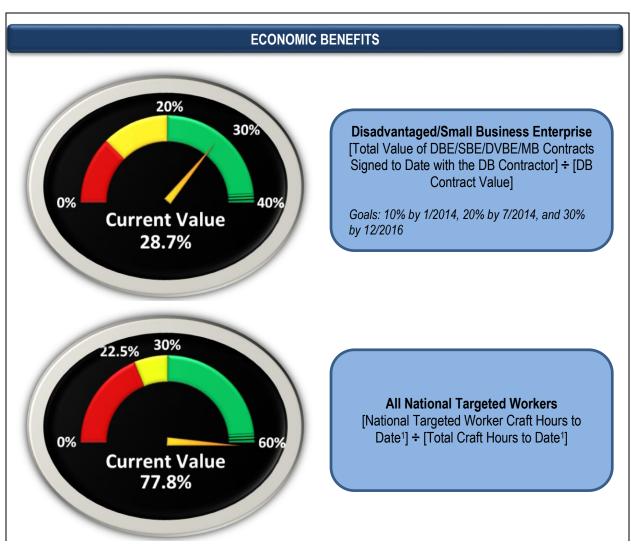
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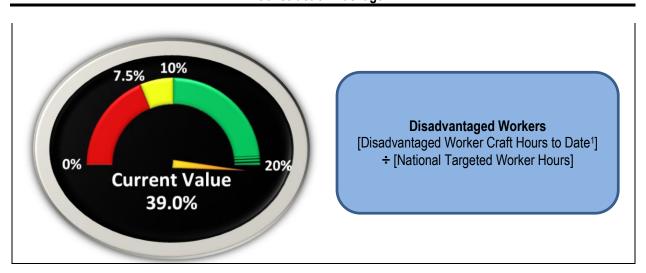


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¹ Estimated Value

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Performance Metrics Explanations (Red & Yellow metrics)

Design & Construction Support Cost – Yellow (Design & Construction Support Cost / DB Invoiced to Date)

- Design & Construction Support Costs (PCM Invoiced to date) = \$6,304,404; DB Invoiced to date = \$92,541,274
- 2. Currently at 6.8%, performance target is < 6%.

Reason – Due to the delay in starting meaningful construction activities, the DB invoiced amount to date is lagging behind what was planned against a fairly flat design and construction support cost.

Mitigation/Improvements – Delays in construction activity are being driven primarily by the lack of adequate ROW to start work. This metric will improve once the Contractor starts construction and the value of their monthly invoice increases. Continued improvement on the delivery of ROW will increase the value of the Contractor's work under construction and subsequently this metric will improve. Responsibility for delay remains TBD.

Schedule Performance Index - Red (SPI = Earned Value-EV / Planned Value-PV)

- 1. EV = \$92,541,274; PV = \$207,845,950
- 2. Currently at 0.45, performance target is >1.0.

Reason – Due to the delay in starting meaningful construction activities, the Contractor's earned value is lagging behind the planned value.

Mitigation/Improvements – Delays in construction activity are being driven primarily by the lack of adequate ROW to start work. This metric will improve once the Contractor starts construction and the value of their monthly invoice (earned value) increases. Continued improvement on the delivery of ROW will increase the value of the Contractor's work under construction and subsequently this metric will improve. This metric will also improve once the Contractor re-baselines the schedule to account for ROW delays and re-sequences his planned work. Responsibility for delay remains TBD.

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Finance and Audit Committee Performance Metrics Explanatory Details

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Construction Package 1

Performance Metrics – Explanatory Details

Category	Description
General	Data Period
Description	The Performance Metrics represent the period of 10/15/2013 (Notice to Proceed) to 10/15/2014.
Safety	Authority Safety Incident Rate: [Number of injuries and illnesses] ÷ [Employee hours worked] * [200,000]
Description	 The goal is to contain the incidence rate at ≤ 3.2. Benchmark: The average incidence rate per the 2012 U.S. Bureau of Labor Statistics, U.S. Department of Labor for heavy and civil engineering construction is 3.2. Authority (CP01 Authority and Consultant on-site staff) has zero incidents of recordable injury or illness to date. The Consultant staff has 38,767 hours worked to date The incidence rate represents the number of nonfatal occupational injuries and illnesses per 100 full-time workers and is calculated as: (N/EH) x 200,000, where N = number of injuries and illnesses EH = total hours worked by all employees during the calendar year 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year)
Safety	Contractor Safety Incident Rate: [Number of injuries and illnesses] ÷ [Employee hours worked] * [200,000]
Description	 The goal is to contain the incidence rate at ≤ 3.2. Benchmark: The average incidence rate per the 2012 U.S. Bureau of Labor Statistics, U.S. Department of Labor for heavy and civil engineering construction is 3.2. Design-Build Contractor (DB) has one (1) incidents of recordable injury or illness to date. Design-Build Contractor (DB) has 260,635 hours worked to date. The incidence rate represents the number of nonfatal occupational injuries and illnesses per 100 full-time workers and is calculated as: (N/EH) x 200,000, where N = number of injuries and illnesses EH = total hours worked by all employees during the calendar year 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year)
Cost	Design & Construction Support Cost: [Design & Construction Support Cost] ÷ [DB Invoiced to Date Amount]
Description	 The goal is to keep the support cost at ≤ 6%. Benchmark: Transit Cooperative Research Program (TCRP) Report 138 is an industry resource for understanding soft costs and was sponsored by the FTA. Construction Administration & Management should be in the range of 5% to 6% of construction costs. The Design & Construction Support Cost encompasses the Project & Construction Management Team (PCM) invoiced to date amount = \$6,304,404 The DB Invoiced to Date Amount = \$92,541,274

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Finance and Audit Committee Performance Metrics Explanatory Details

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Finance and Audit Committee Performance Metrics Explanatory Details

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Economic Benefits	Disadvantaged/Small Business Enterprise: [Total Value of DBE/SBE/DVBE/MB Contracts Signed to Date with the DB] ÷ [DB Contract Value]
Description	 The current goal is achieve ≥30% Benchmark: As the project design is refined, the DB executes DBE/SBE/DVBE/MB subcontracts for specific portions of work. To date, the DB has not provided a schedule of when all of the DBE/SBE/DVBE/MB subcontracts will be signed. The Project and Construction Management Team set goals of 10% by 1/14, 20% by 7/2014 and 30% by 12/2016. DB has executed subcontracts with DBE/SBE/DVBE/MB firms totaling 28.7% of the current DB Contract Amount.
Economic Benefits	All National Targeted Workers: [National Targeted Worker Craft Hours to Date] ÷ [Total Craft Hours to Date]
Description	 The goal is ≥ 30% as identified in the contract. Benchmark: The Community Benefits Agreement requires a minimum of 30% of all hours of Project Work shall be performed by National Targeted Workers. The data is officially reported quarterly and estimated monthly by the DB. DB has 11,327 National Targeted Worker craft hours to date. DB has 16,403 craft hours to date.
Economic Benefits	Disadvantaged Workers : [Disadvantaged Worker Craft Hours to Date] ÷ [National Targeted Worker Hours to Date]
Description	 The goal is ≥ 10% as identified in the contract. Benchmark: The Community Benefits Agreement requires a minimum of 10% of all National Targeted Worker hours shall be performed by Disadvantaged Workers. The data is officially reported quarterly and estimated monthly by the DB. DB has 5,383 Disadvantaged Worker craft hours to date. DB has 11,327 National Targeted Worker hours to date.

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